





State Water Resources **Control Board**

July 27, 2016

Jean Bandura (Project Greenbelt) **Bill Orme**

Phil Crader (Project Champion) (Executive Sponsor)

Lean 6-Sigma Program



Processing Time Reduction for 401 Applications

Problem Statement: At 273 days, processing applications and issuing 401 Water Quality Certification certifications is a time consuming and resource intensive process

Objective: Reduce 401 Certification processing time to 90 days

Project Team:

Jean Bandura – Greenbelt Bill Orme – Champion Phil Crader – Executive Sponsor Team Members:

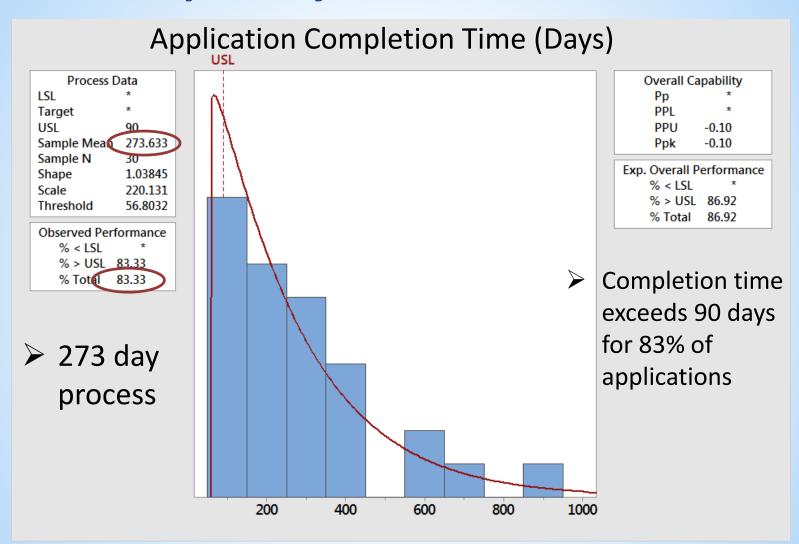
> WQC Unit Ryan Mallory-Jones, WB Legal Staff Mark Harvey, Caltrans & Customer







Baseline Capability

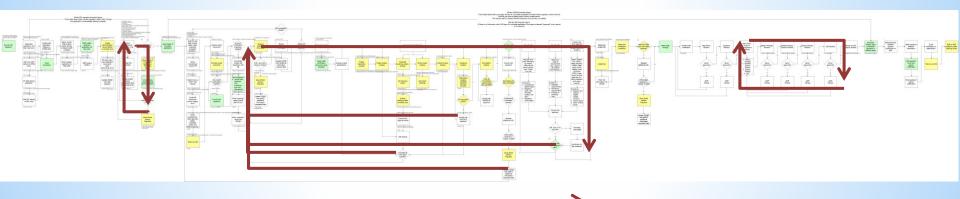






Initial Process Map

- > 130 Step Process Map
- > 13 value added steps



Re-work loops

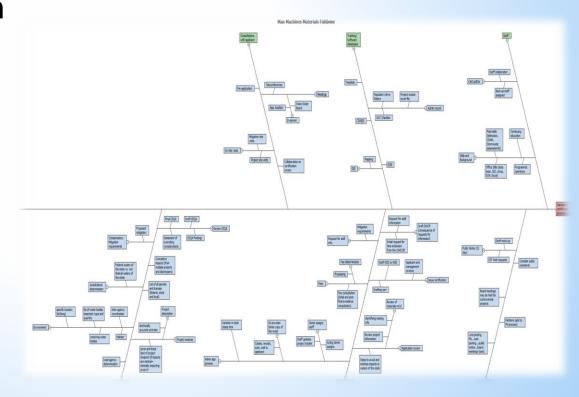
- Multiple requests for information
- > Review
- > Excessive wait time





Analysis Tools

- Process maps
- > Pareto charts
- > FMEA
- > Fishbone diagram
- > Hypothesis tests







Key Analytical Finding 1 -FMEA

Process Step	Input	Defect	Effects	RPN
Has Final CEQA been received?	CEQA document	NOT final	Cannot issue certification	900
Concur with mitigation?	Draft mitigation plan	Incomplete Plan (13 criteria)	Significant Delay	810
Request for information	Lack of information	Unclear request	Delay	729

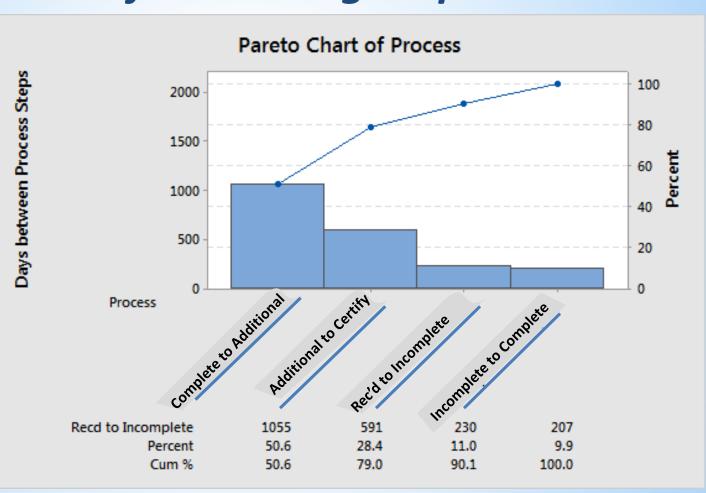
- Key process inputs determine completion time
- Unclear requests for information lead to unnecessary back and with the applicant





Key Analytical Finding 2 -Pareto Chart of Processing Steps

- Each step
 represents
 additional
 information
 requests
- The most time passes between deeming an application complete and certification







Critical X's (root causes of problems)

- > Final CEQA document
- ➤ Mitigation plan
- > Information requests





Improvement Techniques

Revised Process initiates early coordination

- > Pre-application consultation
- > Pre-certification inspection

Standard work provides consistent public service

- > Certification template
- ➤ New application form

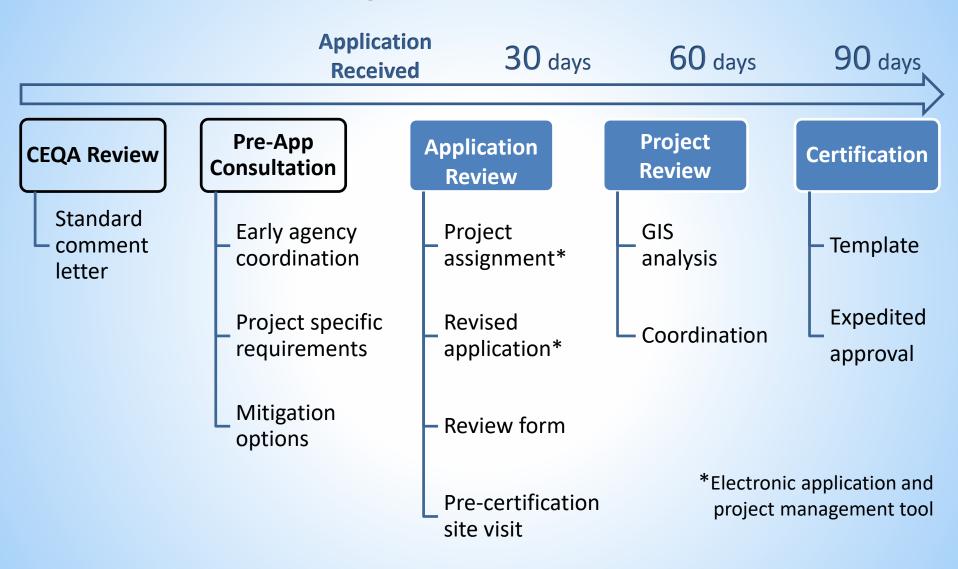
Visual management tools improve communication

Updated application tracking





New Process Map

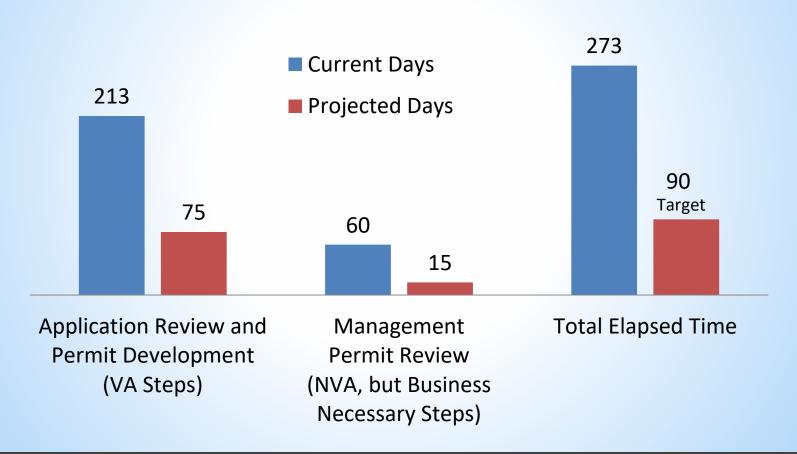






Projected Capability Analysis

Comparison of Process Map Timeframes







Control Plan

Implemented measurement system to track critical X's

Standing unit meeting agenda item for project progress

review

Procedures

- New application form
- Certification template
- Administrative manual
- Review checklist







Additional Benefits



Improved

- ➤ Transparency
- ➤ Regulatory consistency
- ➤ Public service
- > Environmental protection





Green Belt Contact Information

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State Water Resources Control Board

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